

MODIS Airborne Simulator

<i>Channels</i>	50
<i>Footprint</i>	2.5 mrad
	45 m
<i>Swath</i>	$\pm 43^\circ$
	34 km
<i>Spectral range</i>	0.55-14.2 μm
<i>Scan rate</i>	6.25 scans/sec
<i>Pixels in scan line</i>	716
<i>Data system</i>	12 channels – 8 bit

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- *MAS* was delivered to Ames on October 15 where it was integrated, calibrated, and flown in the FIRE Cirrus Experiment which began November 12.
 - 11 flights during cirrus experiment.
 - 3 flights thus far processed through Level-1B processing system (SDST).
 - Engineering assessment of instrument performance conducted to examine temperature sensitivity to calibration gain, rms noise by channel, and absolute calibration of 6 thermal infrared channels.

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- After FIRE campaign, the *MAS* was returned to Dædalus where it is currently being modified to a full 50 channel spectrometer for use in ASTEX, TOGA-COARE, Brazil, and later airborne field campaigns.
- Output Level-1B data will be produced by MODIS SDST and distributed in the netCDF format by anonymous FTP or 8 mm (Exabyte) cassette.
- Enhanced 50 channel, 12-16 bit data system discussed and viewed as an important near future development.